

**ENGINEERING
EQUIPMENT OPERATOR
WG-5716-08**

**TRANSPORTATION
OPERATIONS**

I. POSITION AND ORGANIZATION INFORMATION**Position:**

Engineering Equipment Operator, WG-5716-8, WG-5716-08

Purpose of position:

The primary purpose of this job is to operate engineering and construction equipment and perform functions as cutting, moving, digging, grading, and rolling earth, sand, stone, and other materials and to operate airfield clearing equipment and auxiliary equipment.

Organization:

Transportation Branch

Organization goals:**II. MAJOR DUTIES****A. Duty:**

Operates one or more types of heavy equipment to push, pull, pile, or load materials, such as sand, gravel, earth, coal, moving and covering refuse, and clearing brush, rocks, tree stumps, and other material. Work is generally performed on flat or rolling terrain, refuse dumps, and construction sites with simple terrain problems. Adjusts the attachments for proper level, angle, or depth based on work requirements and equipment used. Operates other types of basic equipment with hydraulically controlled blade, backhoe, or other attachments to aid in installing gutters and drainage areas on shoulders of roads, digs for water and gas lines, and maintains ditches. Operates bulldozer to cover materials dumped at sanitary fill; to excavate for dead animal pits, wood pits, paper and other pits; to blade dirt out of diversion ditches; to pile dirt for front end loader; and to excavate dirt for various other projects. May be required to perform snow/ice control. (100%)

Tasks:

1. Operates a variety of heavy equipment in accordance with safety rules and regulations.
2. Maneuvers equipment in confined areas to avoid damage to equipment or surrounding area.
3. Work is in compliance with specifications, completed within specified time frames, and meets customer requirements.

B. Other Work Requirements

1. This position requires the employee to drive a motor vehicle. A valid California Commercial Driver's License (CDL) for vehicles class "A" and GVW 26001 lbs or more and possess or have the ability to obtain a government vehicle operator's license.

III. CLASSIFICATION FACTORS

Factor 1. Knowledge

1. -- Knowledge of engineering equipment, such as graders, tractors with bulldozer or angle dozer blades, front-end loaders, backhoes, trench diggers, and large industrial tractors with pan or scraper attachments.

-- Knowledge of special purpose airfield clearing equipment, including snow removal equipment and vacuum type sweepers (not conventional snow removal equipment or sweepers used primarily on streets, parking areas, or ramps). Equipment typically consists of gasoline or diesel powered unites equipped with specially designed attachments used separately or simultaneously in clearing runways, taxiways, ramps, and aprons of snow or foreign objects where conventional equipment and techniques are ineffective.

-- Knowledge of the different sets of controls or operation of the equipment and attachments. Skill in handling these controls requires good hand, foot, and eye coordination.

-- Basic knowledge of the nature of the soil composition and features of the terrain to determine the proper approach necessary to perform the operations.

-- Skill in making multiple connections from the equipment to the tractor, connecting mechanical drive shafts and hydraulic lines.

-- Ability to move the equipment about in confined areas.

-- Ability to use and maintain power tools, hand tools, and related equipment.

Factor 2. Responsibility

The operator follows oral instructions or written work orders concerning the location of the job, the work to be done, and the position to be taken during snow removal or other assigned operations. The work is performed largely without direct supervision. Operates the equipment in a safe manner according to safety rules and regulations and uses the equipment properly so that it is not damaged. Employee remains alert and operates the equipment carefully, especially when close to other persons, buildings, or obstructions to prevent injury to others and damage to the equipment. Employee uses judgment concerning equipment operations, such as the lift capacity, weight, and balance of a backhoe and its load. Vehicles are subject to inspection to ensure that operator has complied with servicing requirements.

Factor 3. Physical Effort

Heavy physical effort is used by the operator in constantly climbing on and off vehicles, reaching, bending, turning, and moving hands, arms, feet, and legs to handle different sets of controls to operate the equipment and attachments while sitting for extended periods of time. Requires physical and mental coordination and depth perception. Must be capable of lifting 75-100 pounds in changing attachments on vehicles. Considerable strain is caused by the constant vibration of the equipment and the jerking and jolting from operating over rough surfaces. Frequently required to work in awkward or strained positions. Eyestrain is probable when operating vehicles during adverse weather conditions. In addition, work involves frequent movement and

maneuvering of large, heavy equipment using hoists, holders, and pulleys, attaching and disconnecting tow bars, as required.

Factor 4. Working Conditions

The employee works outside in all kinds of weather, often in an open driver's seat. Works near moving parts of equipment and machinery. The operator is exposed to injury due to the possibility of the equipment overturning, and to slipping and sliding on ice or snow. Employee is subject to noise, vibration, dust, dirt, and fumes from the motor and exhaust. May be required to wear protective clothing, such as parkas, hard hats or other head coverings, steel-toed shoes, gloves, masks, and eye protection.